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Attorney Docket No. 1546.133US02 S

15364 U.S. PTC 10/827109

APPLICATION TRANSMITTAL

Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Transmitted herewith for filing under 37 C.F.R. § 1.53(b) is the patent application of

INVENTOR(S): John C. Knopp,

FOR:

METHODS FOR DETECTING SURGE IN CENTRIFUGAL COMPRESSORS

Enclosed are:

[X] Specification and Abstract - nineteen (19) pages.

[X] Drawings - three (3) sheets (Figs. 1-3).

[] Combined Declaration and Power of Attorney.

[] Information Disclosure Statement.

[] CD-ROM or CD-R in duplicate, and Compact Disc Transmittal.

[] Request and Certification Under 35 U.S.C. 122(b)(2)(B)(i) (nonpublication).

[] _____

| | | | Small Entity | | Large Entity |
|--------------------------------------|-----------|-----------|--------------|-------|--------------|
| | No. Filed | No. Extra | Rate | OR | Rate |
| Basic Fee | | | \$385 | OR | \$770 |
| Total Claims | 31-20 | = 11 | x 9 = \$ | OR | x 18 = \$198 |
| Independent Claims | 8- 3 | = 5 | x 43 = \$ | OR | x 86 = \$430 |
| Presence of Multiple Dependent Claim | | | + 145 | OR | + 290 |
| | | TOTAL | S | TOTAL | \$1398.00 |

| [] | Applicant(s) i | is/are entitled to | small entity | status in accorda | ince with 37 | CFR 1.27. |
|-----|----------------|--------------------|--------------|-------------------|--------------|-----------|
|-----|----------------|--------------------|--------------|-------------------|--------------|-----------|

| [] | A check in the amount of \$0_ to cover the filing fee is attached. The Commissioner is hereby |
|-----|---|
| | authorized to grant any extensions of time and to charge any fees under 37 C.F.R. §§ 1.16 and |
| | 1.17 that may be required during the entire pendency of this application to Deposit Account No. |
| | 16-0631. |

Attorney Docket No. 1546.133US02

[X] This application claims the benefit of U.S. Provisional Application No. 60/463,644, filed April 17, 2003.

Respectfully submitted,

Brad Pedersen

Registration No. 32,432

Signature

CERTIFICATE OF EXPRESS MAIL

"Express Mail" mailing label number EV433103644US. Date of Deposit: April 19, 2004. I hereby certify that this paper is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. § 1.10 on the date indicated above and is addressed to the Commissioner for Patents, P.O. Box 1450. Alexandija, VA 22313-1450.

Mai Lee Vang

Name of Person Making Deposit